BE – SEMESTER V • EXAMINATION – WINTER - 2012			
Subject code: 150201 Date: 16-01-20			
•		Name: Automobile Engines	
•		:30 pm to 05:00 pm Total Marks: 70	
Instr		•	
	1. 2. 1	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain working of four stroke petrol engine with neat sketch. Explain function of crank pin, connecting rod, piston ring.	07 07
Q.2	(a) (b)	Enlist types of engine scavenging and explain any one of them. Explain stratified charge engine with neat sketch. OR	07 07
	(b)	Explain Wankel engine with neat sketch.	07
Q.3	(a) (b)	Explain common rail diesel injection system (CRDI) with neat sketch. Explain merits and demerits of hydrogen as engine fuels. OR	07 07
Q.3	(a) (b)	Explain air cooling system for engines. Write short note on antifreeze solutions.	07 07
Q.4	(a) (b)	Explain types and functions of engine lubrication. Enlist types of carburetors and explain any one of them with neat sketch. OR	07 07
Q.4 Q.4	(a) (b)	Explain objectives of engine superchargers. Explain the stages of combustion with P-O diagram in C.I.Engines.	07 07
Q.5	(a) (b)	Compare LPG and CNG as fuel for I.C.Engines. Explain the effects of pollutants on environment from gasoline engines and its control. OR	07 07
Q.5	(a)	Enlist the methods for measurement of brake power of an engine and explain any one of them.	07
	(b)	Explain valve timing diagram for four stroke diesel engine.	07
